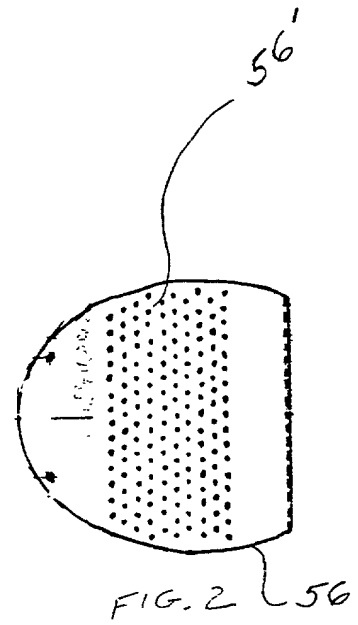


FIG. 1



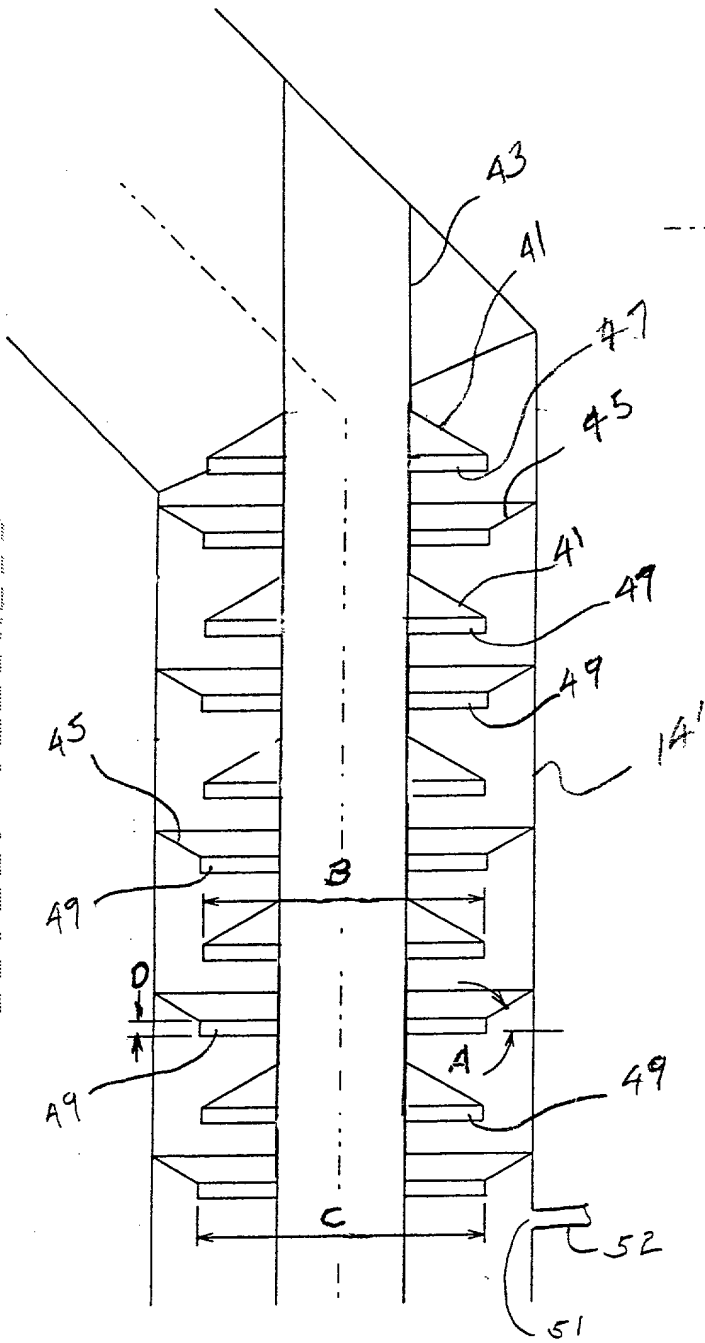


FIG. 3

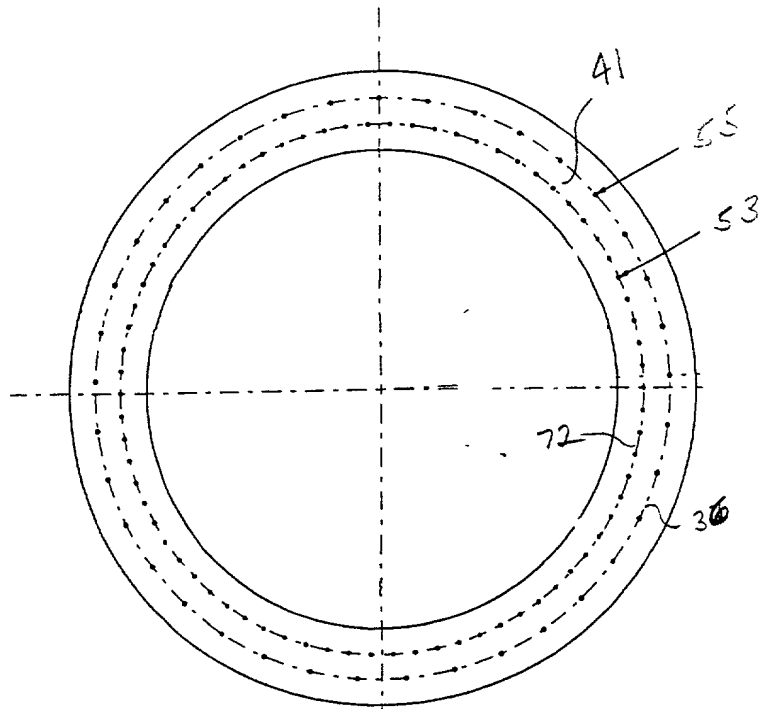


FIG. 4

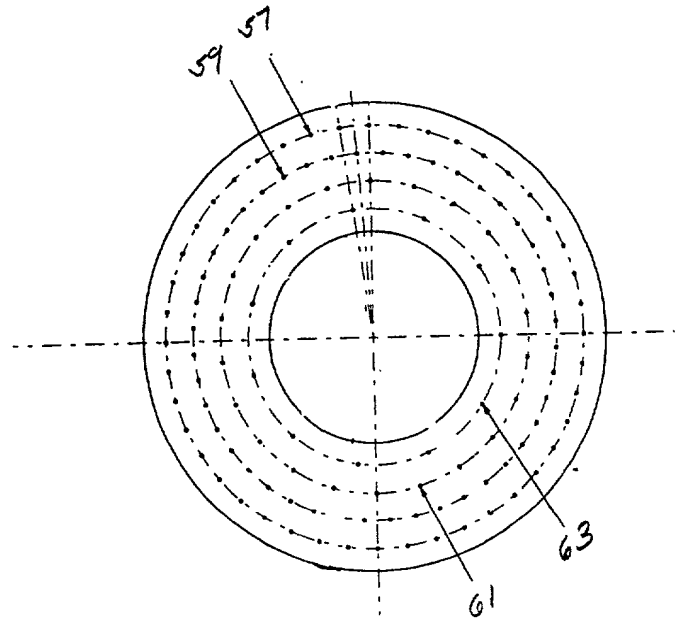
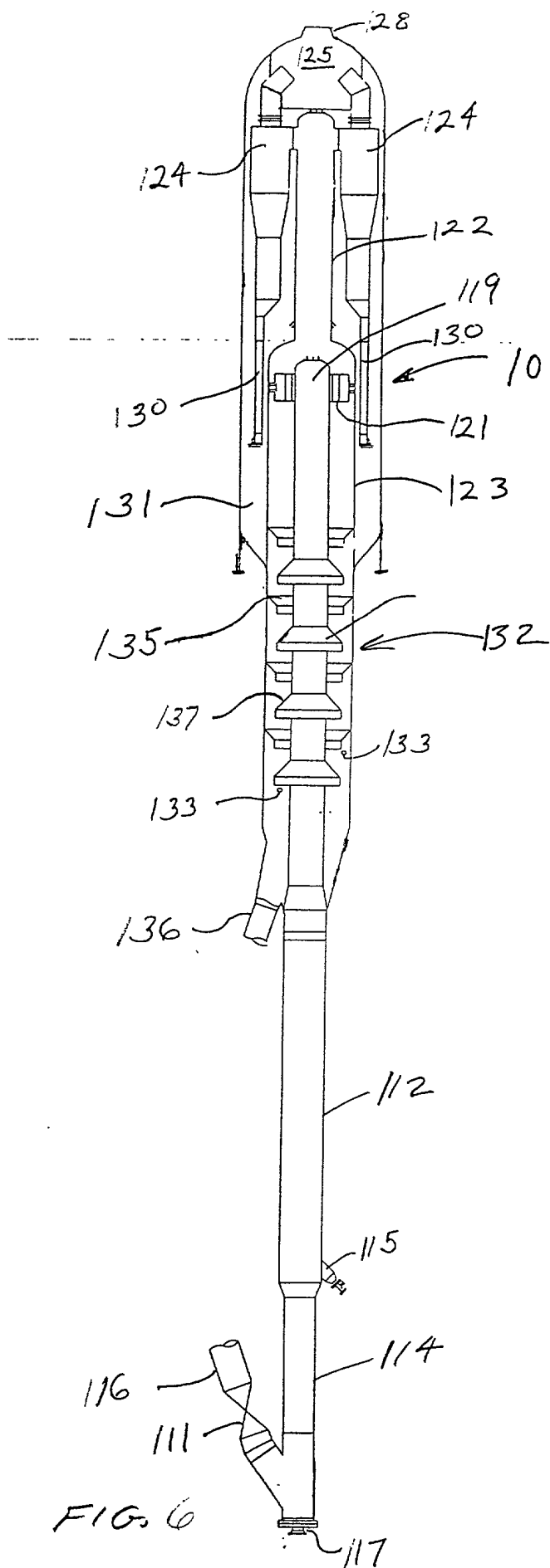


FIG. 5



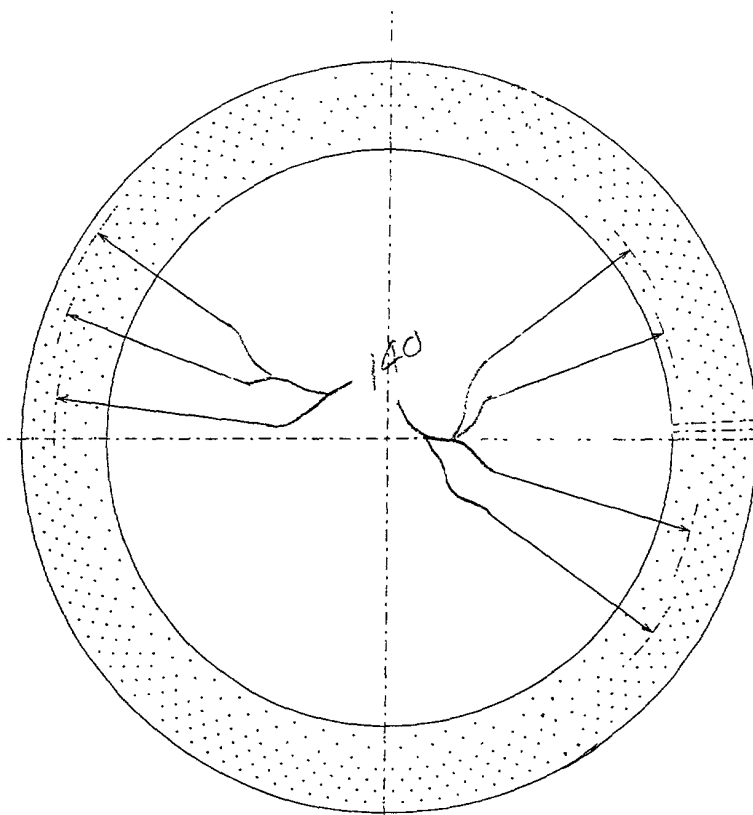


FIG. 1

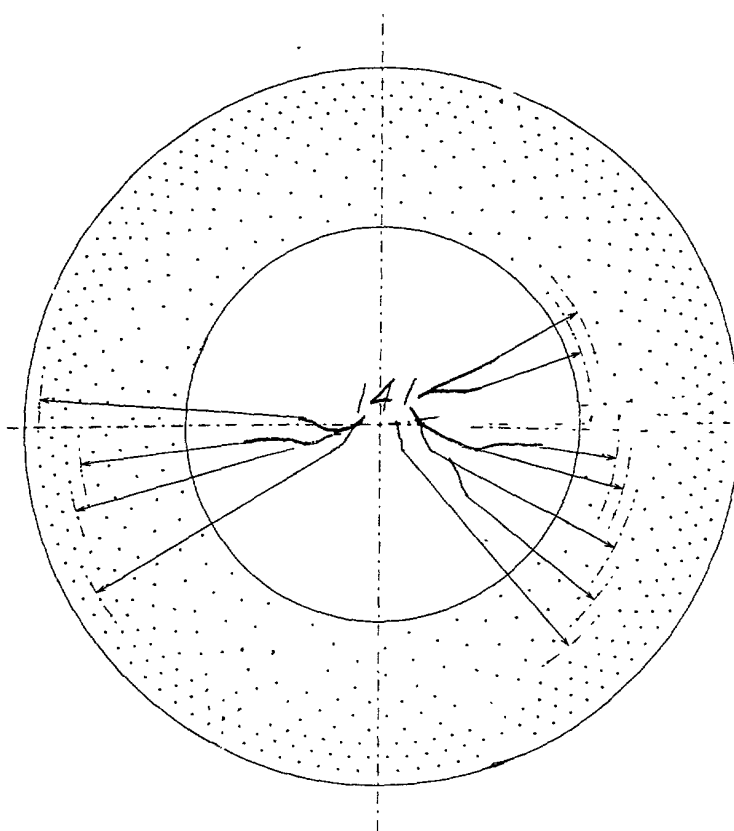
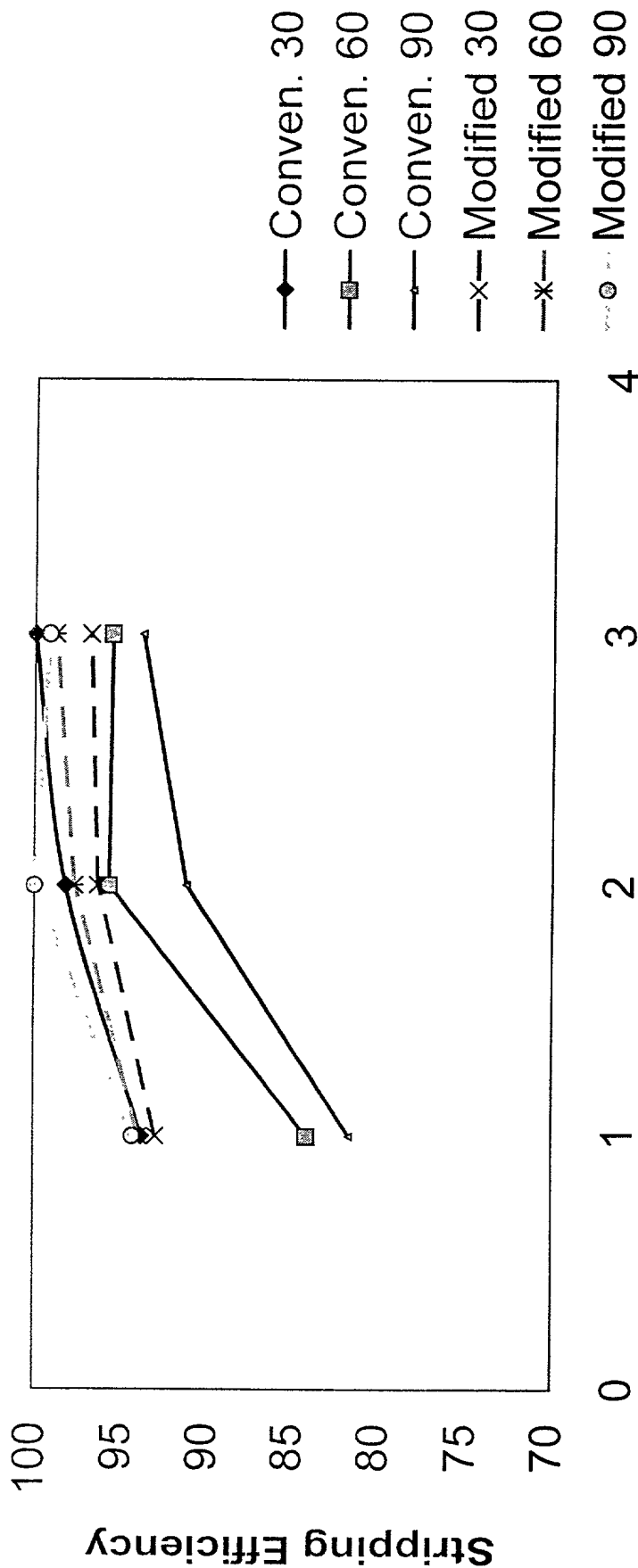


FIG. 3

Conventional Tray vs Modified tray at 30, 60 and 90,000 #/hr-ft²



Equivalent Stripping Rate # steam / 1000 # catalyst

FIG. 9